

A regular update on UniSA programs and events

Welcome to the final edition of UniSA Links for 2008. It is truly amazing how quickly the year has flown past. In this edition we aim to update you with some exciting information about our Engineering degrees as well as highlight some information sessions and workshops that your students might find of interest.

This newsletter is also available online on www.unisa.edu.au/future/advisers/unisalinks.asp

UniSA's Engineer Express

Author: Michèle Nardelli.

With the world clamouring for engineers across a broad range of industries, UniSA is introducing a flexible study program that will ensure more qualified engineers are available more quickly.

From 2008 all UniSA engineering students will complete a common first year that provides a solid foundation in what engineering is about which then leads to an engineering specialisation of their choice with a special option of doing the degree in three years rather than four.

UniSA Pro Vice Chancellor for IT, Engineering and the Environment, Professor Andrew Parfitt says the restructure of the program will ensure UniSA can work hand-in-hand with industry to meet skills shortages and move quickly to provide education specialisations in emerging areas of significance.

"People tend to have a rather antiquated view of the role of the engineer in society – the great bridge, road and railway builders of the past," Prof Parfitt says. "Today engineering is the basis for a range of specialisations in everything from space science, telecommunications and manufacturing to the development of sustainable systems for energy production, mining, industrial development, and water management.

"Engineering is a linchpin expertise. Engineers harness the power of science and maths to solve real problems and bring about innovation – it's a driver's seat career.

"Many students at high school have little understanding of the different fields of engineering. Our common first year will expose students to a range of different disciplines before they have to commit to any one. All this is achieved while still developing an



understanding of the fundamental nature of engineering."

Prof Parfitt said core areas of growth in SA including the defence and mining industries and the management of natural resources, would continue to force up the demand for skilled engineers for many years to come.

And nationally the Department of Education, Science and Training's Science, in its *Engineering and Technology Skills Audit* (July 2006) estimated there would be a shortage of 20,000 engineers within the next six years.

"This new approach to engineering at UniSA will offer students much more choice and many more opportunities to find their career fit and make an invaluable contribution to the development of the State and the nation," Prof Parfitt says.

The first year of the new look engineer program will provide a practice-centred foundation for students and all students engaged in the accelerated program will still complete the 12 weeks industrial work experience required by Engineers Australia for accreditation.

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UniSA's Engineer Express – New three year accelerated engineering program

UniSA's engineering programs have just undergone two major changes – a common first year and the introduction of an accelerated program option. These changes are designed to improve the flexibility and study choices for students and to keep up with the significant industry growth for qualified civil, mechanical and electrical engineering professionals.

Entry Requirements

The program and entry requirements remain the same for all our engineering programs. Students engaged in the accelerated program will still complete the 12-week industrial work experience required by Engineers Australia for accreditation.

Common first year

We have introduced a first year program of eight new core courses which are common to all of our Bachelor of Engineering degrees, including the double degrees and the Bachelor of Technology (Mechanical & Manufacturing Engineering). The 8 core courses are also common with the

new Associate Degree in Engineering also being introduced in 2008. The first year program of study will provide a practice-centred foundation to engineering that will expose students to the breadth of engineering as well as how engineering is applied in servicing the community. By the end of the first year students will have a solid understanding of the diversity of engineering and they will be in a more knowledgeable position to choose the specialised field of engineering which they want to work in as a professional engineer. Although students will commence their nominated specialisation at the beginning of the first year they will be able to easily transfer to a different specialisation of their choice by the end of the first year without additional time or cost.

Three year accelerated engineering program

UniSA now also gives students the opportunity to accelerate the completion of their Bachelor of Engineering program to 3 years. We have changed the structure of the engineering

programs by introducing an accelerated program of study using three study periods per year instead of two. On completion of the common 1st Year, students demonstrating satisfactory performance will be offered the option of completing the engineering bachelor degree in 3 years by taking courses in a summer study period instead of taking a break. The 4 year option will remain available for students who wish for academic or personal reasons to complete in the standard program duration.

UniSA is the only University in South Australia and one of only a few Universities nationally, to offer this option to domestic and international students. The accelerated program option is subject to their academic performance in the first year and students interested in this option should obtain further information from their program director.

For further information about the new engineering programs or to attend the December Engineering Information Session visit www.unisa.edu.au/itee

Want to know more about Mechanical Engineering

The School of Advanced Manufacturing & Mechanical Engineering at UniSA is holding a seminar on **Friday 23 November 2007** at the Mawson Lakes campus, where students will present the results of the projects they have worked on during the final year of their degree. These projects combine all the skills and knowledge that students develop throughout their university study. A wide range of topics are covered

on the day, including projects based in companies such as BHP Billiton, ASC and Clipsal, and the School's Formula SAE Car, where a team of students actually build a car from the ground up to compete in an annual event in Melbourne.

Year 10 and 11 students, Career Counsellors and other interested people are welcome to attend the seminar to discover the exciting work and numerous

career possibilities available to Mechanical Engineers. A guided tour of the laboratories will also be conducted on the day.

If you would like to attend a session please register via: www.unisa.edu.au/ame.

For further information, please contact Joanne Mielnik on (08) 8302 3020 or Peter Bardadyn on (08) 8302 3218.



Computing and IT Scholarships

Commencing Students in 2008

The School of Computer and Information Science offers twenty commencing scholarships annually to selected students entering the first year of an undergraduate degree program.

The scholarships will be awarded to students on

the basis of academic merit and will be available for the standard full-time duration or part-time equivalent in the first year of the program. Recipients must be Australian Citizens or permanent residents of Australia.

The value of each full-time scholarship is \$2,000. www.cis.unisa.edu.au

ATN Engineering Test An engineering pathway for students who have not studied maths/science

Keen to pursue a career in engineering but not sure if you have what it takes? Find out by sitting the ATN Engineering Selection Test, a two and a half hour multiple choice test that assesses your aptitude to think scientifically, solve quantitative problems and critically analyse information.

If you are in high school but do not have the traditional year 12 maths and science background, this is your chance to see if you can enter the exciting field of engineering.

Successful completion of the ATN Test allows entry into UniSA's Associate Degree in Engineering, a pathway into a Bachelor of Engineering degree.

Upcoming ATN Test details
Monday 29 October
12.00 - 2.00pm
Room MB1-36

University of South Australia
Centre for Regional
Engagement
111 Nicolson Avenue
Whyalla Norrie, SA 5608
For further details about the test please visit www.unisa.edu.au/cre

Please note - The Adelaide ATN Test was held on September 15, 2007. However, students who successfully complete the ATN Test in Whyalla can apply for entry into the Associate Degree in Engineering in Adelaide.



Preparing for Health Sciences Workshop.

Invaluable for any year 12 student wishing to study health sciences in 2008.

The Division of Health Sciences at UniSA, has for many years offered an optional four day workshop entitled 'Preparing for Health Sciences' prior to the commencement of the University academic year. This course is provided for those students who have not studied any biological or physical sciences in their final years of schooling but wish to undertake an undergraduate degree in Health Sciences at University. Students find this preparatory course most valuable and our numbers

have grown considerably over recent times.

Please inform your current Year 12 students about our workshop, which will be conducted in mid February 2008. The workshop flyer with all necessary details is included with this edition of UniSA Links.

To attend the workshop, students need to complete a registration form by Friday 8th February, 2008. Registration forms can be downloaded from the following website: www.unisa.edu.au/pmb/shortcourses/prephealthscience.asp

For any further information please contact the coordinator of the program, Dr Jyothi Thalluri on 83022368,.

UniSA's Preference Information Event

Thursday 3rd January

3:00pm - 7:00pm

City West Campus, North Terrace

Students are invited to speak to staff in the Yungondi Building about their preferences, study options and scholarship opportunities or attend any of the scheduled information sessions on campus. To find out more about this event, visit www.unisa.edu.au/pie or call 1300 UNINOW.

Graduates from UniSA have their say!

How experience makes the difference.

There's no better way to find out about UniSA Health Sciences facilities, staff and programs than straight from the people who have experienced them.

"At high school I enjoyed studying sciences in particular biology. I found genetics and biotechnology fascinating during year 11 and 12 which encouraged me to pursue my studies in a scientific field of biotechnology. Studying at UniSA was a great experience. UniSA has a welcoming and friendly atmosphere with facilities for science students that

are excellent. In the science laboratories there is a lot of new equipment, which makes it easier for students to operate in the lab. The teaching staff are experts in the field and are able to provide you with experienced knowledge and advice.

Throughout the program you get to meet with people who are interested in the same area as you, as well as talk with experienced people in the field. This prepared me for entering the workforce and gave me insight into what it is like working in the field". *Kristy Ormrod (student)*

If your students have questions about UniSA Health Sciences facilities,



staff and programs they can find out more by reading what our students have to say on our Student and Graduate Experiences webpage. Follow the links from www.unisa.edu.au/health

Careers in Business - profiling Bachelor of Business (Property)

Lauren Stevens, Bachelor of Business (Property). Graduated 2006.

Having graduated from a Bachelor of Business (Property) in 2006, Lauren Stevens has now found employment as a Graduate Valuer at Jones Lang LaSalle.

This exciting opportunity now sees Lauren valuing Industrial properties as well as some commercial and retail. "I have on average 1-2 inspections per week which takes up some of my time. The remainder of my time is spent doing research for comparable properties and sales, lots of calculations and report writing. We tend to work to a deadline so I have to balance all of my jobs so that I can deliver the reports



to the client on time. The research takes a majority of my time, especially if the property is specialised because sales can then be few and far between. I also spend a lot of my time using Microsoft Excel together

with Jones Lang LaSalle's valuation models" says Lauren.

Lauren attributes her job hunting success to "networking and being in touch with people in the industry throughout the university. There was no advertisement for the job, I just took the initiative to get my name out there.". Lauren's career tip for students interested in Property, "Keep in touch with the industry even if it means doing unpaid work experience, and don't wait for a job to fall in your lap!"

For more information about Career Services in the Division of Business, please visit www.unisa.edu.au/business/careers/default.asp.



Siemens Science Experience

The annual Siemens science experience will once again take place at UniSA City East and Mawson Lakes campus

Tuesday 15 – Thursday 17 January, 2008.

The event, for year nine students entering year 10 in 2008, provides three days of university campus based hands-on activities, talks and

short lectures on cool science topics.

A registration fee of \$95 applies and students may seek financial sponsorship from a Rotary club. Further information can be found at www.scienceexperience.com.au or see the enclosed flyer.

Important information for students commencing Pharmacy in 2008.

The University has been notified by the Pharmacy Board of South Australia that new legislation, requiring students studying Pharmacy programs to register with the Board before they may commence or continue in the program. This is currently passing through the legislative process and is likely to come into effect by 2008. Once this legislation comes into effect the University will be required by law to ensure that all students studying Pharmacy are registered with the Pharmacy Board of South Australia. It is essential that students who are entering the UniSA Pharmacy program commence the registration process as soon as possible after they receive notification to do so. Students who receive an offer into the Pharmacy program will receive a letter from the University outlining more detail. If the legislation comes into effect by the beginning of 2008, students will be required to

be registered before they can commence classes in 2008. It is the student's responsibility to register on the Board's Student Register, and to remain registered throughout the program. Once the legislation comes into effect, UniSA cannot allow anyone to commence or continue classes if they are not registered with the Board, including if they are on leave from the program. Note, however, if you receive an offer from SATAC and defer that offer, you are not required to register. Students who defer their offer automatically receive a further offer into the program the following year and, if they accept that offer, will be required to register with the Board at that stage.

For further information and to register (once notification to eligible students is received) please visit the Pharmacy Board of SA website. www.pharmacyboard.sa.gov.au

World Solar Challenge - Trev's biggest challenge



Trev, UniSA's lovable pint-sized two-seater, renewable energy vehicle, is about to face his biggest test yet – the 2007 Panasonic World Solar Challenge (WSC).

Leaving Darwin on Sunday October 21 as part of the Greenfleet class of energy efficient vehicles, Trev will join his bigger and uglier solar-powered relatives as they make their way to Adelaide along the Stuart Highway. Senior Research Fellow in the Centre for Industrial and Applied Mathematics at UniSA's Institute for Sustainable Systems and Technologies, Peter Pudney, has been involved in the WSC since 1993 as strategist, solar array designer and race manager for the successful Aurora

solar racing team. Peter leads Trev's team of seven UniSA mechanical and electrical engineering students.

"Trev is really designed to be used by urban commuters over distances less than 150km," Dr Pudney said. "Trev is taking part in this year's WSC to see how he performs at speed over long distances and to demonstrate how an attractive, practical and energy efficient vehicle can also be reliable." Under normal operating conditions, when recharged by mains electricity, Trev costs less than \$1/100km to run.

For more information about the 2007 Panasonic World Solar Challenge, visit www1.wsc.org.au

Bookings

Please contact one of our Student Liaison Officers to schedule in your events or email studentliaison@unisa.edu.au. To ensure services provided to you from our staff are of the highest quality, please allow for a minimum of two weeks notice when making bookings.

Contacts

Student Liaison Officers
Ryan Bailey, Rebecca Graeber, Ann Pocock
Phone: 8302 7088
Fax: 8302 9150
Email: studentliaison@unisa.edu.au

Future Student Enquiries Centre
The Future Student Enquiries Centre has information on all UniSA programs. Our friendly, professional staff can assist students, parents and teachers with information about prerequisites and admission processes.
Phone: 8302 2376 or 1300 UNINOW
Email: study@unisa.edu.au

What's coming up. December Program Information Sessions

Program information sessions are a chance for students to hear about different programs. Students will get the chance to talk to staff and students and ask questions they may have. Parents and friends are also welcome.

School of Pharmacy and Medical Sciences, City East campus

On campus introductory session, 12th December 2007, 6.00pm – 8.00pm

Programs include:
Laboratory Medicine, Medical & Pharmaceutical Biotechnology, Nutrition & Food Sciences, Pharmacy and the new Pharmaceutical Science
A night for prospective students to access information and have questions answered about programs offered by the School of Pharmacy and Medical Sciences. To register please visit www.unisa.edu.au/pmb

Tuesday 11 December

Engineering
Environmental Management and Sustainability
Mathematics

Wednesday 12 December

Urban and Regional Planning
Construction Management and Economics
Environmental Management and Sustainability (repeat)
Science and Science Teaching
Computing and IT

For registrations and session details visit www.unisa.edu.au/itee

Free Research and Innovation Lecture Series

Sustaining Farmland and Water Resources: the Growing Problem
Professor Nanthi Bolan
Tuesday 20 November, 6:00pm – 7:00pm

Farming once focused purely on yield. However, the agenda has now shifted to sustainability: How do we ensure the primary resources of the farming industry are sustained? In this presentation Professor Bolan will illustrate how radically the paradigm has moved from maximising production, to conserving resources and managing sustainability. He will present the latest research on the hot topics of land remediation, greenhouse gas emission, carbon sequestration and wastewater management. He will also discuss the future challenges and opportunities for managing natural resources and the value of an integrated, interdisciplinary approach to resolving our national and global environmental issues.

For further details and registrations visit www.unisa.edu.au/itee

Do you have international students at your school?

Do they need any assistance with their program choices or applications to UniSA?

We have a dedicated international student liaison officer who can assist your international students make decisions about their program choice at UniSA, give information about the application process and alternative pathways for international students to enter UniSA. If you or your international students would like any information, please contact: Melissa Keane 8302 0591 or melissa.keane@unisa.edu.au

Professional Development Opportunity

In a preview of an exciting development for Career Counsellors, UniSA's Graduate Certificate in Education (Specialisation) will shortly include a 'Career Development' specialisation. We look forward to providing you further details in the new year and have invited the Program Director to attend UniSA's Career Counsellor session in 2008

The Domestic Student Recruitment Team – update

The first edition of UniSA Links in the New Year will introduce you to our new team for 2008, but for now, we want to bid a fond farewell to Shona Mathieson, who leaves us to go on 12 months maternity leave.

You will also notice that Kolynda Maguire has been missing in action. Kolynda has accepted a 12 month secondment opportunity with the School of Natural & Built Environments at Mawson Lakes. We wish both Kolynda and Shona all the best in their very different endeavors over the next 12 months..

Attention Art & Design Students UniSA School of Art Graduate Exhibitions

Are you interested in a career in visual art or graphic design? Come and see what graphic designers and visual artists create in their final year at Uni. All Yr 10, 11 and 12 Students (and Art/ Design teachers) are welcome.

School groups are also welcome to book tours of these exhibitions. Please call Catherine on 8302 4073.



Bachelor of Visual Communications Graduate Exhibition
24 November – 30 November 2007 Open everyday 11 – 5

Bachelor of Visual Arts Graduate and Honours Exhibition
6 – 14 December 2007 Open everyday 11-5

SASA Gallery
Kaurna Building, UniSA Fenn Place (off Hindley St), Adelaide
(08) 8302 0281
www.unis.edu.au/art/sasagallery

Law changes.
Keep up.
UniSA Law.

Experience. The Difference.

UniSA

The Bachelor of Laws at UniSA provides flexibility and recognises the diverse needs of our students. The program is offered in 3 trimesters commencing in February, June and September. The program is equivalent to a 4 year degree but can be

completed in 3 calendar years. Some students may choose to study over 4 years, but given the unique trimester delivery method, students can fast track their studies and complete the degree well ahead of their contemporaries at other law schools.